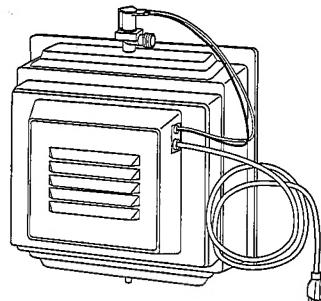


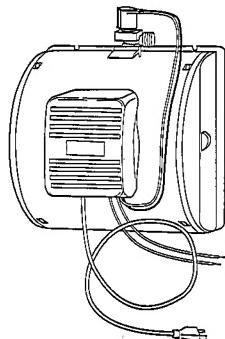


## HUMIDIFIERS

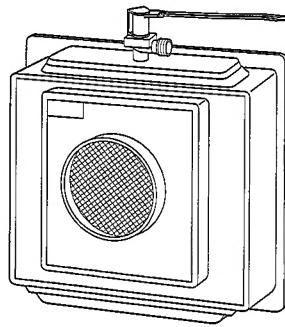
## MODELS 913B, 913C, 912D, 914A, 912E



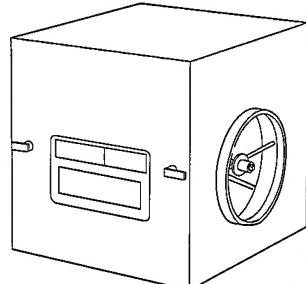
913B



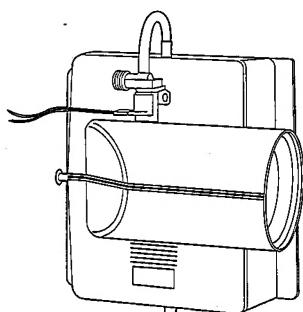
913C



912D



914A



912E

All Bryant humidifiers are designed for easy installation and quiet operation with heat pumps as well as upflow, downflow, or horizontal furnaces. Humid air is circulated throughout the home by the central heating system. All Bryant humidifiers are equipped with a humidistat to maintain the desired humidity level. Access to the media pad in the humidifier is convenient and tools are not required, allowing easy pad replacement.

The fan-powered humidifiers, Model 913B and 913C, are designed for simple installation on supply ductwork, without a bypass duct required. Humidity is achieved by drawing heated supply air through a wet media pad, by means of the humidifier's fan. The 913B offers high evaporation rate, up to 25 gallons of moisture per day. For smaller, tighter constructed, or well insulated homes, the 913C can deliver up to 16 gallons of moisture per day.

The by-pass humidifiers, Model 912D and 912E, are designed for installation on the supply or return ductwork, by means of a bypass duct on a forced air heating system. Bypass humidifiers operate on the pressure differential between supply and return ductwork, bypassing heated supply air through the wet media pad, and back into the return air. The 912D offers up to 18 gallons of moisture per day with front bypass duct discharge. The 912E can deliver up to 17 gallons of moisture per day and has a reversible side bypass duct discharge.

The humidifiers mentioned are constructed of high-impact, Noryl thermoplastic to provide years of durability. Mineral buildup is reduced by continual flushing with fresh water. The water valves are low-voltage DC solenoid valves, offering quiet operation. The voltage is then rectified to AC for installation.

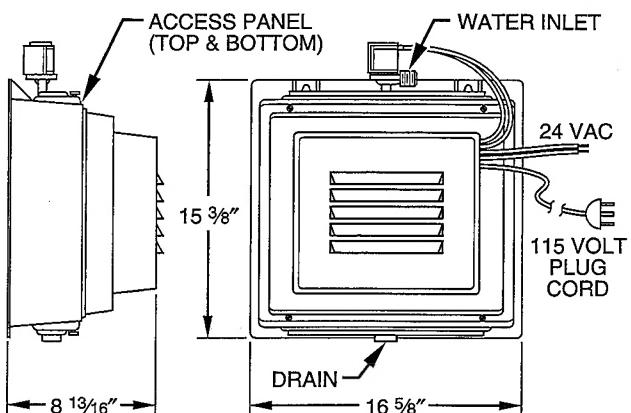
The Model 914A is rated up to 19 gallons of moisture per day and because of its no-drain construction, it is perfect for areas where hard water is not a problem. This Model is a bypass humidifier and is reversible for right or left duct runs. A rotating foam drum is operated by a synchronous motor and a float valve maintains the water level to keep the drum wet. An observation window allows for convenient visual maintenance checks.

## SPECIFICATIONS

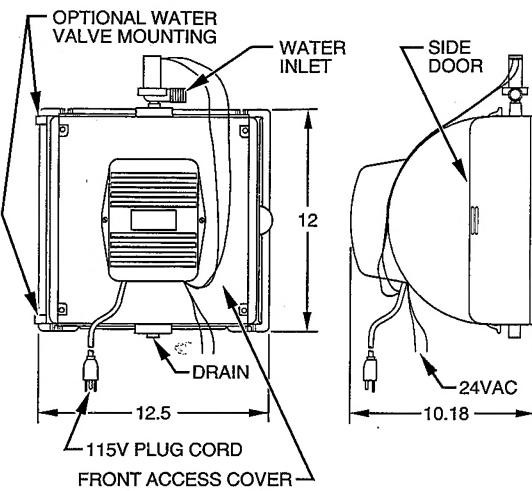
MODEL	912E	912D	913B	913C	914A			
<b>ARI CAPACITY*</b>								
Gallons/Day @ 140° (Lbs/hr)	17 (5.9)	18 (6.3)	25 (8.7)	16 (5.9)	19 (6.6)			
Gallons/Day @ 120° (Lbs/hr)	12.8 (4.4)	13.5 (4.7)	18.8 (6.5)	12.8 (4.5)	14.3 (5.0)			
<b>TYPE</b>								
Airflow	Bypass		Fan		Bypass			
Waterflow		Drain Through			No drain			
<b>GENERAL</b>								
Evaporator Pad-Replacement	L2-02623-2	L2-02623-1	L2-02623-3	L2-02950-1				
Material of Evap Pad	Treated Expanded Aluminum			Polyether Foam				
Size (H x W x D) of Evap Pad	10-7/8 x 10-7/16 x 1-3/4	14 x 10-5/8 x 1-3/4		9-3/4 x 9-1/4 x 1-1/4	9 Dia x 8-7/8			
Pad Access	Side (Right or Left) with Snap Latch	Top and Bottom with Thumbscrew		Side (Right or Left) and Front Access	Front with 2 Pawl Latches			
Unit Size (H x W x D)	13-3/4 x 13-3/4 x 7-5/16	15-3/8 x 16-5/8 x 5-13/16	15-3/8 x 16-5/8 x 8-13/16	12.5 x 12 x 10.18	11-1/2 x 11-7/8 x 11-7/8			
Weight (Lb)	8	7.4	14	10	11.4			
Water Usage (Gal/hr)		3.3		3.2	Float Controlled			
<b>ELECTRICAL CONTROL</b>								
Low-Voltage Terminals								
Volts	24 VAC							
Amps (MAX)	0.50			0.13				
VA (MAX)	12			3				
Watts	10			3				
High Voltage Cord								
Volts	NA		115V - 1PH - 60HZ		NA			
Amps	NA		1.00	1.9	NA			
<b>CONNECTIONS</b>								
Water Inlet	1/4-in. Tubing or 3/4-in. Garden Hose				1/4-in. Tubing			
Water Drain	5/8-in. Tubing	1/2-in. Tubing		5/8-in. tube	1/2-in. Tubing			
Duct	6-in. Round, Right/Left	6-in. Round, Front	NA		6-in. Round, Right/Left			
Duct Opening (In) (W x H)	11-1/2 x 11-3/4	15-1/2 x 13-1/2	15-1/2 x 13-1/2	11.50 x 11.00	11-7/8 x 11-1/2			
<b>MATERIALS</b>								
Cabinet	Silver Sage							
Material	High Temperature, Thermoplastic (Noryl)				Prepainted Galvanized Steel			
Valve	Nylon				Polypropylene			
Water Pan	NA				Polypropylene			
Drum	NA				Polypropylene			
<b>STANDARD EQUIPMENT</b>								
Water Valve	Solenoid, 24 VDC		Solenoid, 24 VDC Converted to 24VAC		Float			
Rectifier, 24 VAC	24 VAC, 24 VDC		NA					
Motor	NA		Thermally Protected 115 VAC, 1/60 Hp	Thermally Protected 115 VAC, 25MHP	24 VAC, Synchronous			
Relay	NA		SPST†, 24 VAC	SPST, 24VDC to AC	NA			
Humidistat	SPST							
Saddle Valve	Standard							
Transformer	120 to 24 VAC, 12 VA	NA		120 to 24 VAC, 12 VA				
Damper	Standard	NA						
Template	Standard							
Mounting Hardware	Standard							

\* Per ARI Standard 610, 60°F water, 0.20 in. wc.

† Single pole, single throw.

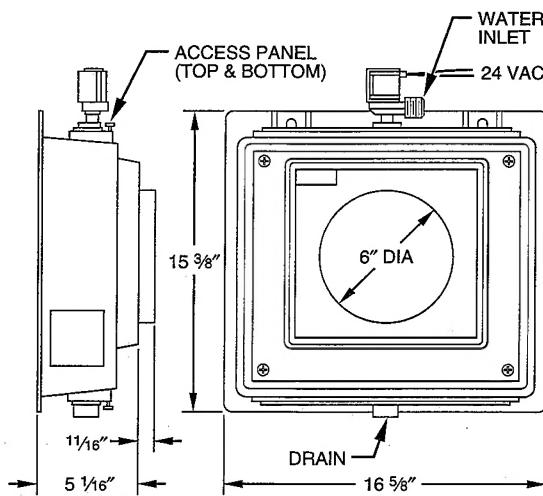


**Model 913B**



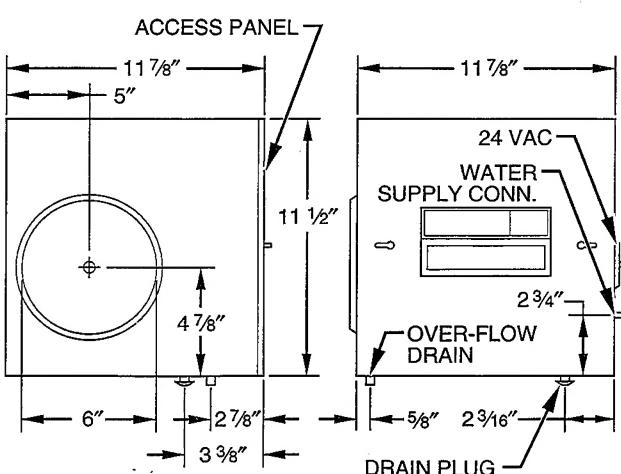
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**Model 913C**



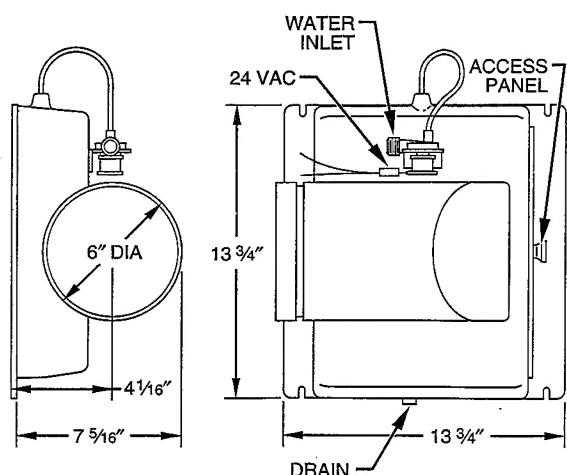
**Model 912D**

A96483



**Model 914A**

A96484



**Model 912E**

A96485

**RECOMMENDED RELATIVE HUMIDITY  
BY OUTDOOR TEMPERATURE**

OUTDOOR TEMP (°F)	OUTDOOR RELATIVE HUMIDITY (%)	INDOOR RELATIVE HUMIDITY (%) W/O HUMIDIFIER*	MAXIMUM RECOMMENDED INDOOR RELATIVE HUMIDITY†
-10	30 to 70	1 to 2	20 (Lo)
0	30 to 70	2 to 4	25
10	30 to 70	3 to 6	30
20	30 to 70	4 to 10	35
30	30 to 70	6 to 15	40 (Med)

\* Indoor relative humidity level when outdoor air is heated to 72°F.

† As stipulated by the Air Conditioning Contractors of America.

**INDOOR RELATIVE HUMIDITY LIMIT  
FOR NO WINDOW CONDENSATION  
(Indoor Air at 74°F Dry Bulb)**

OUTDOOR TEMPERATURE (°F)	SINGLE PANE WINDOWS (%)	DOUBLE PANE WINDOWS (%)
40	39	59
30	29	50
20	21	43
10	15	36
0	10	30
-10	7	26
-20	5	21
-30	3	17

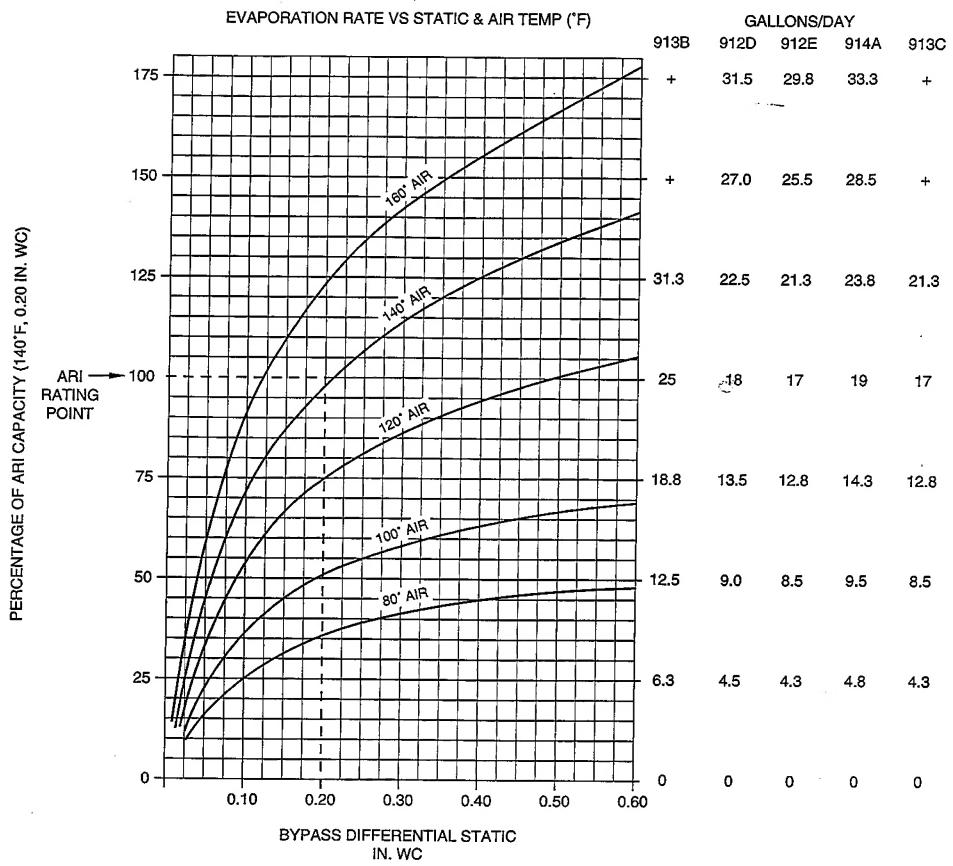
**MAXIMUM MOISTURE REQUIREMENTS\***

VOLUME OF RESIDENCE (CU FT)	TIGHT HOUSE		AVERAGE HOUSE	
	Pounds Per Hour	Gallons Per Day	Pounds Per Hour	Gallons Per Day
8,000	1.76	5.09	3.52	10.17
10,000	2.21	6.35	4.41	12.72
12,000	2.64	7.63	5.29	15.26
14,000	3.09	8.91	5.92	17.08
16,000	3.53	10.18	7.06	20.35
18,000	3.97	11.45	7.94	22.89
20,000	4.41	12.72	8.82	25.44
22,000	4.85	13.99	9.71	27.98
24,000	5.29	15.27	10.59	30.52
26,000	5.74	16.54	11.47	33.07
28,000	6.18	17.81	12.35	35.61
30,000	6.62	19.08	13.24	38.16

\* Based on design conditions of outdoor 20°F dry bulb, 80% RH; indoor 70°F dry bulb, 40% RH, and minimum moisture production from residential operations for an absolute humidity difference of 0.0049 lbs/hr.

**NOTE:** Tight house is defined as being well insulated, having vapor barriers, tight storm doors and windows with weatherstripping, and having dampered fireplaces.

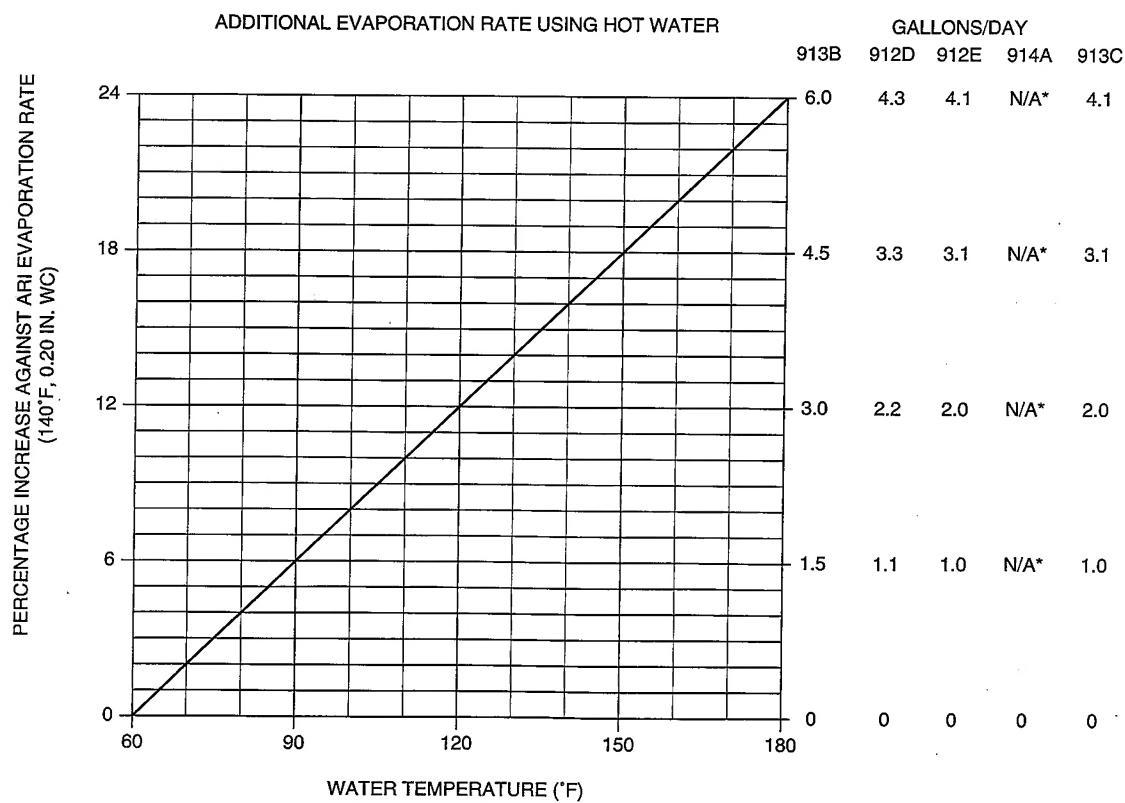
Average house is defined as being insulated, having vapor barriers, loose storm doors and windows, and having dampered fireplaces.



+ FAN UNIT CAPACITY VARIES ONLY W/AIR TEMP. AT 0.20 STATIC POINT

NOTE: DUCT STATIC HAS NO EFFECT ON 913B

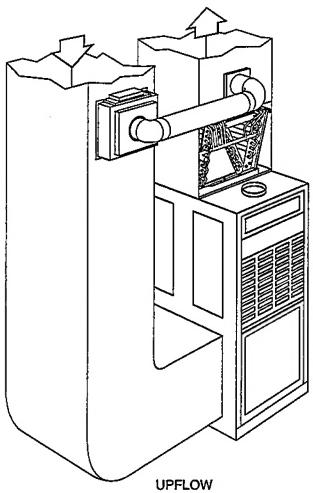
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NOTE: 914A, NO DRAIN = 0% (USE OF HOT WATER HAS LITTLE OR NO EFFECT DUE TO NON-FLOW THRU DESIGN OF 914A)

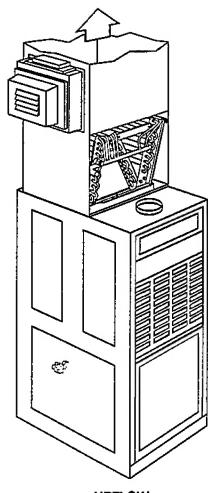
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## TYPICAL HUMIDIFIER INSTALLATIONS



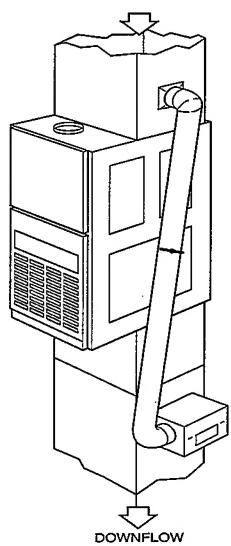
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MODEL 912D IN A HORIZONTAL INSTALLATION



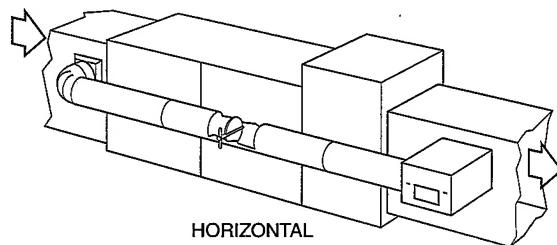
A96493

MODEL 913B IN AN UPFLOW INSTALLATION



A96490

MODEL 914A IN A DOWNSFLOW INSTALLATION



A96491

MODEL 914A IN AN UPFLOW INSTALLATION



# SERVICE TRAINING

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE  
WITH INSTALLATION INSTRUCTIONS

Cancels: PDS 912F.52.1B